PROJECT NUMBER: 2106
PROJECT TITLE: Cigarette Performance and Design
PROJECT LEADER: R. W. Dwyer
PERIOD COVERED: January, 1989

CIGARETTE DESIGN MODELING (B. Dwyer)

A. **Objective**: Develop computer-based cigarette-design models for modifying the properties of current products and for designing novel ones.

B. **Results**: A Fortran-based model has been developed which allows one to design cigarettes to meet tar, puff count, and cigarette RTD targets. The model allows the user to explore the effects of filter construction, ventilation, tobacco-rod construction, and burn rate on tar delivery and puff count. At this point, the computer model includes routines for conventional and concentric CA filters.

C. **Plans**: We are developing routines for handling paper, CA-web, and polypropylene filters. These should be incorporated into the model within two months.

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